

REDUCED ORDER MODEL NODE LOCATION METHOD FOR MULTI-HOP NETWORKS

ABSTRACT OF THE DISCLOSURE

5 A method for peer-to-peer ranging and discovery of a rigid body existing in a
scatternet having piconets and nodes includes the steps of defining a node (12) in a
piconet (10) to be a piconet controller (PNC) having controller functions, locating a
rigid body seed including the node (12), and discovering a rigid body by sequentially
downloading controller functions of the piconet controller (12) to at least one border
10 node. Also provided is a communications node including a receiver for receiving
communications from other communications nodes in a communications range (R), a
transmitter for sending communications to other communications nodes in the
communications range (R), a memory storing at least ranging information and a
unique identification for describing the node, and a processor connected to the
15 receiver, to the transmitter, and to the memory, the processor being programmed to
carry out the method according to the present invention.

GLM